Title: Fade controller for providing programmable fade
rates for on-screen display (OSD) window
Inventor: Mohammad K. Seth
Appl.No. 10/614,228   Atty.Docket No.: P05617

FIG. 1

FIG. 2

Title: Fade controller for providing programmable fade
rates for on-screen display (OSD) window
Inventor: Mohammad K. Seth
Appl.No. 10/614,228   Atty.Docket No.: P05617
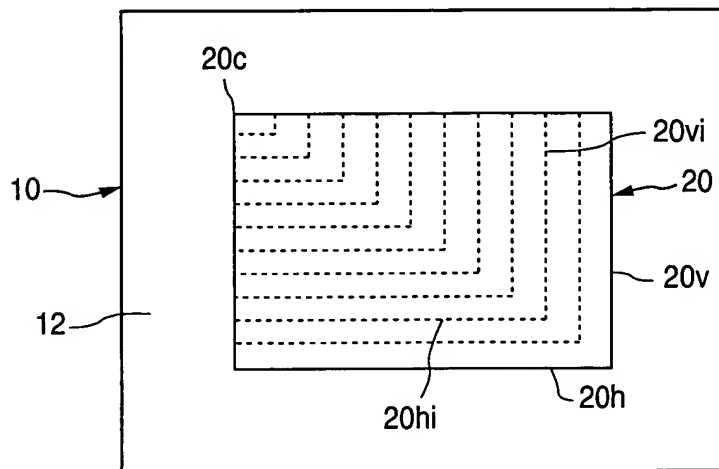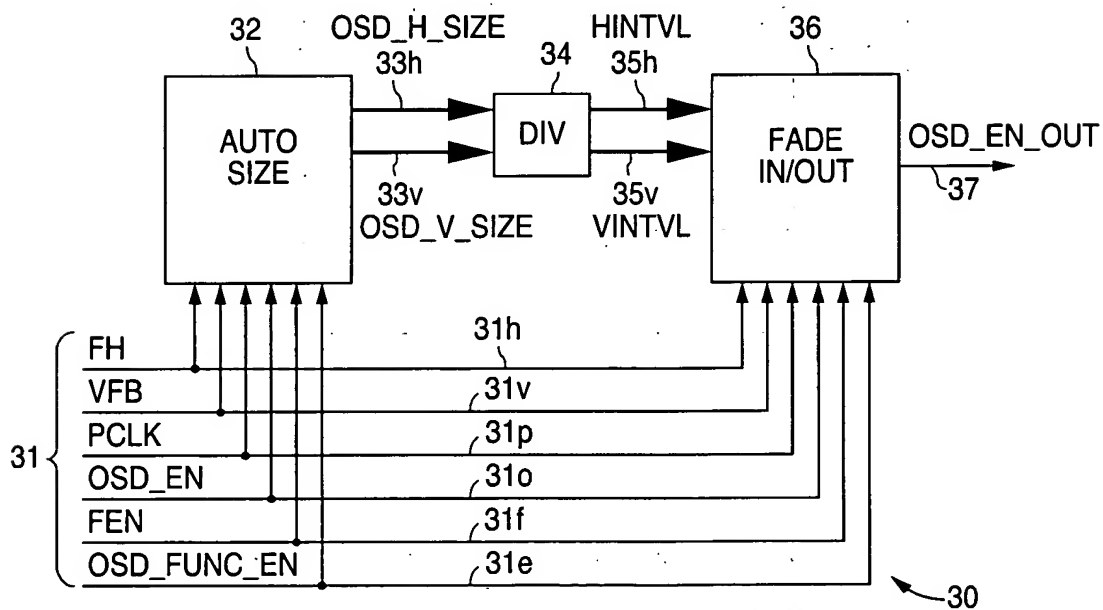
F_OSD_ON

55 56 37

53

54

51v
V_OSD_ON

36

H_OSD
ON 51h 52

49h   D Q
      CK

50h

TC
48h   D HINTVL
        CNTR
      LD
      CK

51v
50v
D Q
CK

48v   TC
      D VINTVL
        CNTR
      LD
      CK

49v

61gh
61fh

61dh 61eh

N
47h

46h   D HINTVL Q
        REG
      CK

40h

61bh

61ch

45h

44h ADD/
43h SUB

42h
H
INTVL

35h   M   60h 61ah

31f FEN
31h FH
31p PCLK
31v VFB
OSD_ON

31o

WIN1 IS ON

OSD_ON

R
47v

46v   D VINTVL Q
        REG
      CK

40v

61bv

61cv

45v

44v ADD/
43v SUB

42v
V
INTVL

35v   P   60v 61av

61dv 61ev

61v

31f FEN
31h FH
31p PCLK
31v VFB
OSD_ON

31o

HORZ
CONT
SEQ

VERT
CONT
SEQ

40

FIG. 3

Title: Fade controller for providing programmable fade
rates for on-screen display (OSD) window
Inventor: Mohammad K. Seth
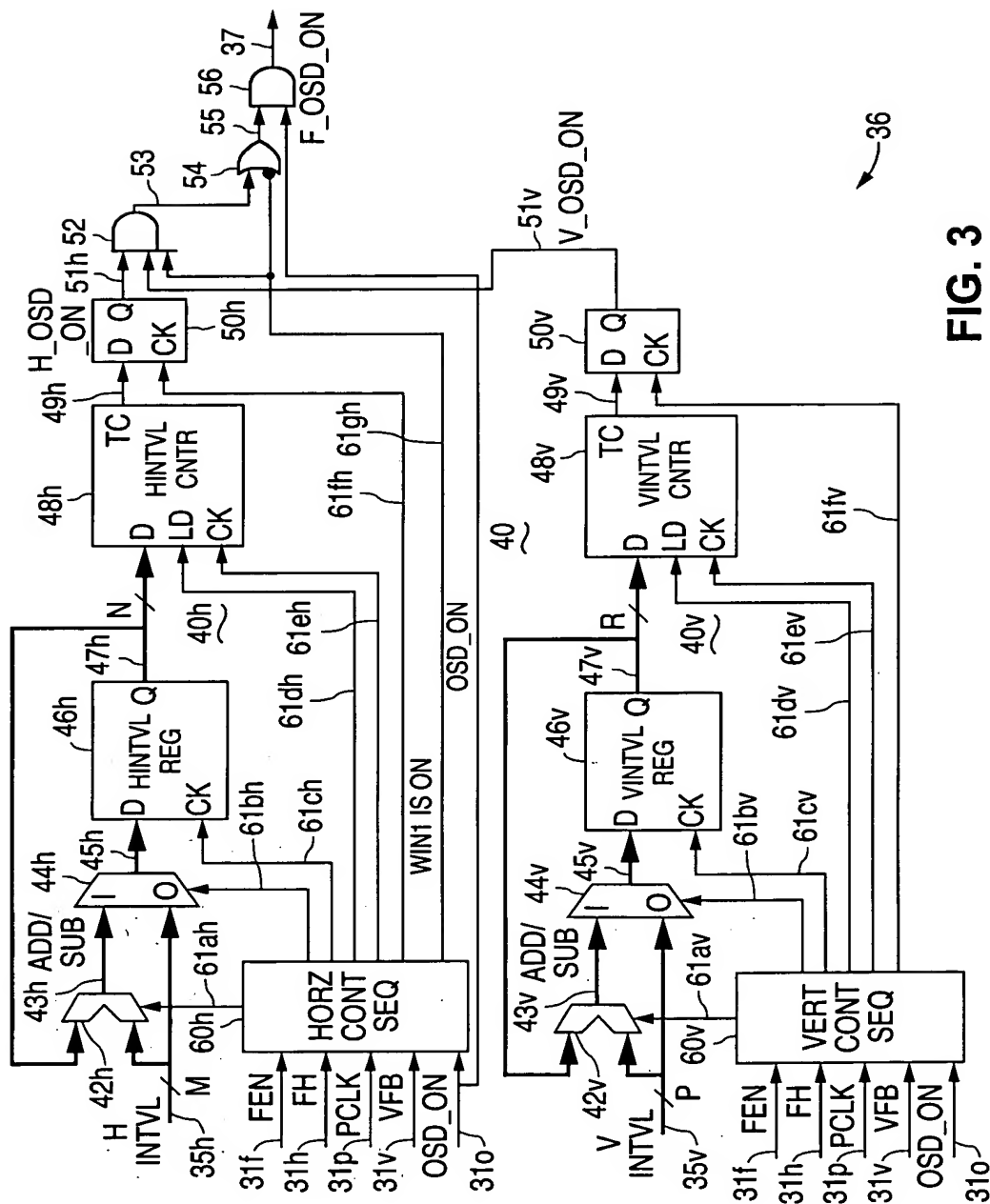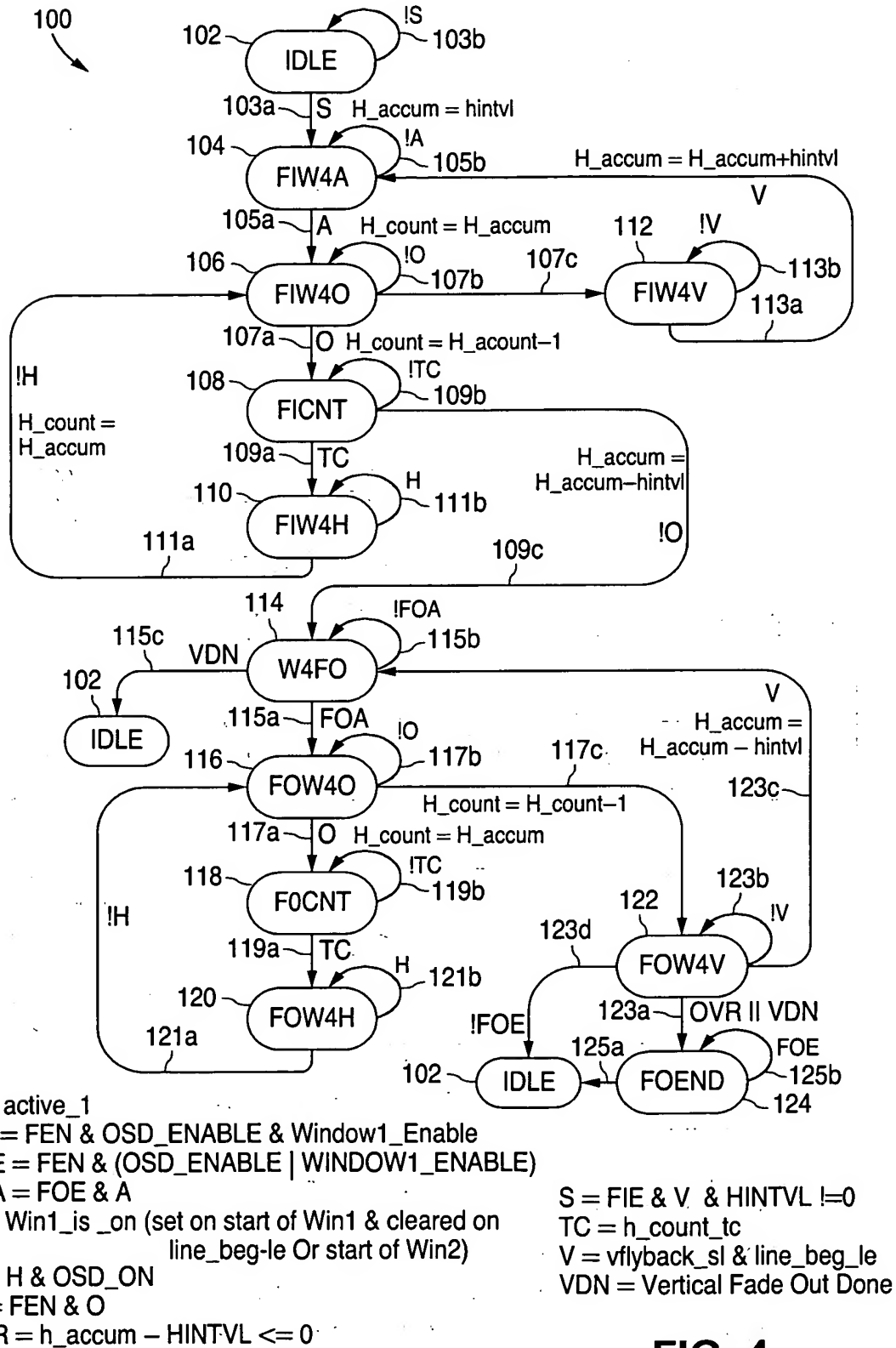Appl.No. 10/614,228   Atty.Docket No.: P05617

FIG. 4

A = active_1
FIE = FEN & OSD_ENABLE & Window1_Enable
FOE = FEN & (OSD_ENABLE | WINDOW1_ENABLE)
FOA = FOE & A
H = Win1_is _on (set on start of Win1 & cleared on
          line_beg-le Or start of Win2)
O = H & OSD_ON
FI = FEN & O
OVR = h_accum – HINTVL <= 0

S = FIE & V & HINTVL !=0
TC = h_count_tc
V = vflyback_sl & line_beg_le
VDN = Vertical Fade Out Done

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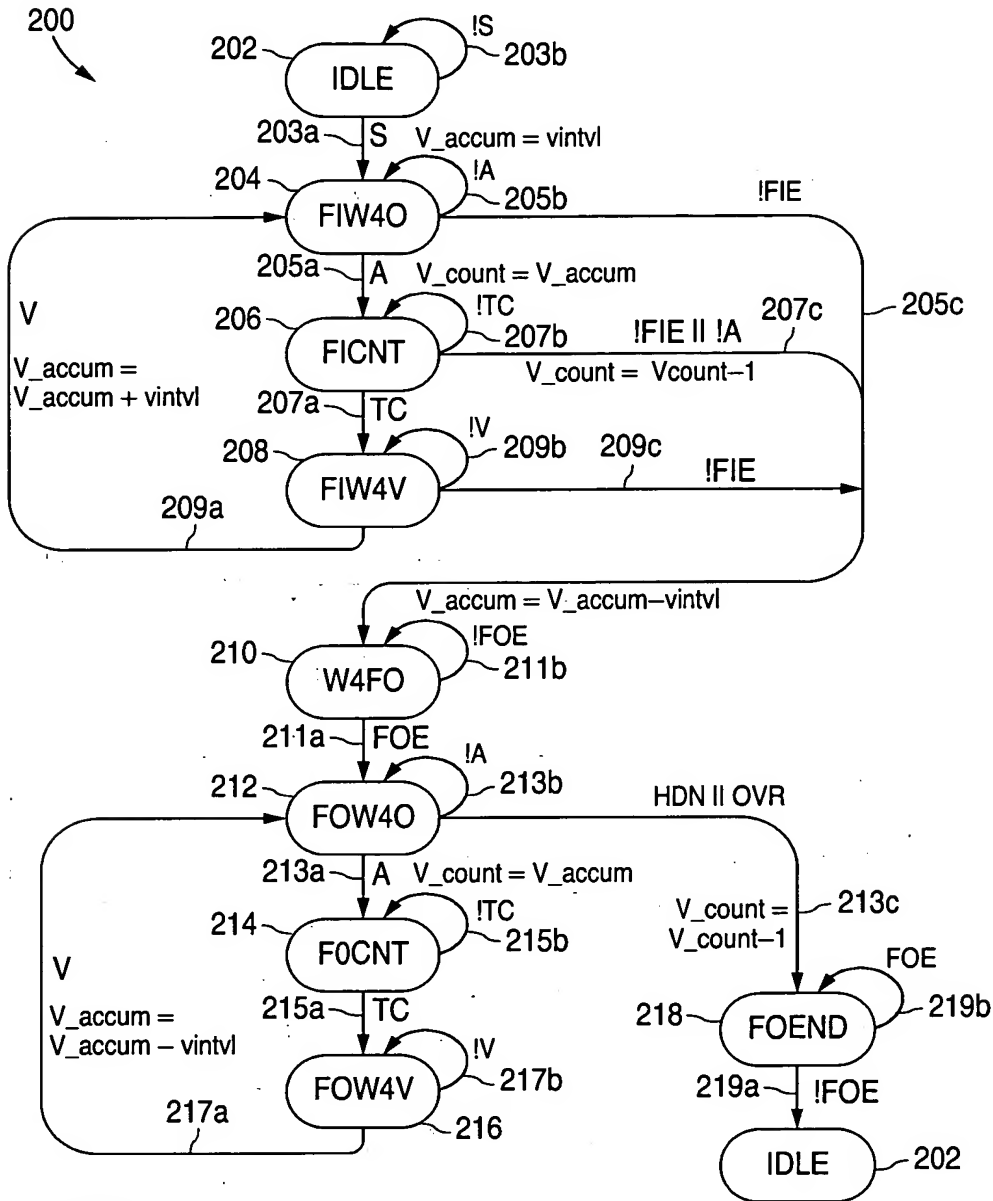Appl.No. 10/614,228   Atty.Docket No.: P05617

A = active_1
FIE = FEN & OSD_ENABLE & Window1_Enable
FOE = FEN & (OSD_ENABLE | WINDOW1_ENABLE)
FOA = FOE & A
FI = FEN & O
OVR = V_accum − VINTVL <= 0
S = FIE & V INTVL !=0
TC = v_count_tc
V = vflyback_sl & line_beg_le
HDN = H_state_done

FIG. 5